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Assignment - 1 Web programming

19whsal201
D Hailka

- 1) write a program to find factorial value of any number entered by the user using javascript.

```
1) <html>
    <head>
    <script>
    function show() {
    var i, no, fact;
    fact = 1;
    no = number ( document . get element by Id ("num") value);
    for (i=1; i<no; i++) {
    fact = fact * i;
    }
    document . get Element by Id ("answer") . value = fact;
    </script>
    </head>
    <body>
    enter num : <input id = "num">
    <button onclick = "show()"> factorial </button>
    <input id = "answer">
    </body>
    </html>
```

Output :-

enter num :

2) In a company an employee is paid as under, if his basic salary is less than RS 1500, then HRA = 10% of basic salary and DA = 90% of basic salary.

if his salary is either equal to or above RS 1500 then HRA = RS 500 and DA = 98% of basic salary. if the employee's salary is input write a program to find his gross salary using javascript eventhandlers.

```
A) <html>
  <head>
    <script>
      function show () {
        var no, ans;
        no = Number (document.getElementById ("salary").value);
        if (no < 1500) {
          ans = no + ((10/100)*no) + ((90/100)*no);
        }
        else {
          ans = no + 500 + ((98/100)*no);
        }
        document.getElementById ("answer").value = ans;
      }
    </script>
  </head>
  <body>
    enter salary : <input id = "salary">
    <button onclick = "show()"> gross salary </button>
    <input id = "answer">
  </body>
</html>
```

O/P :

enter salary

1203

factorial

203603 16

enter salary

1203

Gross salary

20363.16.

1) write a program to take a character (c) as input & check whether the given character is a vowel or a consonant using java

1) class Solution {

public static void main (String [] args) {

Scanner sc = new Scanner (System.in);

Character c = sc.next ();

if (c == "A" || c == "E" || c == "I" || c == "O" || c == "U")

{

System.out.println ("vowel");

} else {

System.out.println ("consonant");

}

}

output 1

z

consonant

output 2

n

vowel

- 4) Describe in detail multithreading concept illustrate with the java code.
- A) multithreading in java allows concurrent execution of two or more parts of a program for maximum utilization of CPU each part of such program is called a thread. So, threads are light-weight process within a process program.

class multithreading Demo extends thread {

public void run () {

try {

system.out.println ("thread" + thread.currentThread().getId () + " is running");

} catch (exception) {

system.out.println ("exception is caught");

} }

public class multithread {

public static void main (string [] args) {

int n = 4;

for (int i = 0 ; i < n ; i++) {

multithreading Demo object = new multithreading .objects
start ();

} }

output :

thread 4 is running
thread 5 is running

output :

thread 6 is running
thread 7 is running

connect to the database using any of the JDBC drivers.
insert & display & records with bus ticket reservation
information.

```
import java.sql.*;
```

```
public class solution {
```

```
    public static void main(String[] args) {
```

```
        Connection con = null;
```

```
        Statement st = null;
```

```
        try {
```

```
            Class.forName("com.mysql.jdbc.Driver");
```

```
            con = DriverManager.getConnection("jdbc:mysql://localhost  
[bus", "root", "root");
```

```
            System.out.println("connection established");
```

```
            st = con.createStatement();
```

```
            st.executeUpdate("insert into booking values (13,  
"hyderabad", "chennai", "2021-01-12", "19:30", 4  
"person", 38));
```

```
            st.executeUpdate("insert into booking values (130,  
"vijayawada", "hyderabad", "2021-01-20", "19:30", 5,  
"person 2", 40));
```

```
            ResultSet rs = st.executeQuery("select * from booking);
```

```
            while (rs.next()) {
```

```
                System.out.println("ticket no: " + rs.getInt(  
"ticket number"));
```

```

system.out.println("source:" + rs.getString("source"));
system.out.println("Designation" + rs.getString("destination"));
}
conn.close();
st.close();
}
catch (Exception e) {
    e.printStackTrace();
}
}
}

```

O/p :-

connection established

ticket no: 131

source : hyderabad

destination : chennai

ticket : 130

source : vijayawada

destination : hyderabad.